

Work Order ID 158032***158032***

Page 1

Tuesday, March 07, 2017 11:05:15 AM

Item ID: D3172-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Basket Base Assembly
Start Date: 3/27/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 4/6/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference: SCHEDULED
Approvals: Process Plan:  Date: MAR 07 2017 Tooling: Date: Run Start ***NR1***
QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3172	D								

100

0.00

100

Large Fab

Large Fab

Large Fab

Memo

1-Cut Qty 4 D3166-1 as per Dwg D3172

2-Cut 3/4" x 3/4" square tubing as per Dwg D3172

3-Drill holes in D3172-3 as per Dwg D3172

4-Deburr & Remove all markings from material

5-Weld all ribs as per Dwg D3172 using Welding Table

6- Use DT 8996 jig to locate D3174-1 as per dwg

7- Weld D5365-1 as per dwg in (2) locations. From edge of back basket corn (without hinge) to bottom of D5365-1 lug. And (2) located at the front.

8- Weld mesh as per dwg

3.33

DC-2017/03/30

1x CC 17.4.4

DAS
43
9-89

APR 21 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
5005 1 S 99A									
Root Cause		FAULT CATEGORY							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER :						
Misidentified ☐	☐	Past Due ☐							

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N900040100

Setup Start *NS1*

Stop *NS2*

Start Date: 3/27/2017 **Start Qty:** 1.00 ***1***

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Reference: SCHEDULED

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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QC9- Inspect visual per QSI004- Fusion Welds

0.00

110

QC

Memo

0.00

Quality Control

120

~~QC6-~~ Inspect dimensions to drawing

0.00

120

QC

Memo

0.00

Quality Control

125

Pressure Wash per QSI005 4.3

0.00

125

HandFinish

Memo

0.07

Hand Finishing

DQA: _____ Date: _____

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Description Work Order Deviation		Disposition		PD 17-04-20 Completed By 17.04.20 Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Change to QCS		permanent change as per QSI 12.4.3			

Root Cause				FAULT CATEGORY			
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	
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--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

130

130

Powdercoat

Powder Coating

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

0.00

*M 136657***Memo**

0.12

1ST COAT:

START TIME: *2:15*OVEN TEMPERATURE: *400*FINISH TIME: *2:45*

***** 2nd coat if necessary*****

2ND COAT:

START TIME: _____

OVEN TEMPERATURE: _____

FINISH TIME: _____

1 *φ 170424* *858*

140

140

QC

Quality Control

QC3- Inspect Part Finish

0.00

Memo

0.03

lx d ll 17104/25 **DAS 15 3-89**

DQA: _____ Date: _____



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OTHER : ☐					

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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150	Identify as per dwg & Stock Location <u>W10</u>	0.00							
150									
Packaging	Memo	0.00							
Packaging									
160	QC21- Final Inspection - Work Order Release	0.00							
160									
QC	Memo	0.02							
Quality Control									

DAS
21
9-55

APR 28 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
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Past Expiry Date ☐			Manufacturing Process ☐	OTHER :																					
Misidentified ☐			Past Due ☐																						

Picklist Print

Tuesday, March 07, 2017 11:05:20 AM

Page 1

Work Order ID: 158032

158032

Parent Item: D3172-041

D3172-041

Parent Item Name: Basket Base Assembly

Start Date: 3/27/2017

Required Date: 4/6/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:B04.01.05Added Step 5 inspectionKJ/RF
IPP Rev:C 08-08-29 revC as per dwg DD verified by:EC IPP Rev:D
11.04.04 added pressure wash DD VERF:EC IPP REV:E 16.11.03 AS
PER DWG REV.D DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

✓ D2232-3

Manufactured

No

100

Each

17.0000

2

2

D2232-3

Basket Hinge

**

CC 17-4-3

Location

Loc Qty

Loc Code

WA004

17

6

11

148935

156858

B 158439 → (2x)

✓ D2327-3

Manufactured

No

100

Each

57.0000

2

2

D2327-3

Spacer Bushing

**

Location

Loc Qty

Loc Code

WA004

57

7

50

148585

154190

C5 @ 17103/29

✓ D2581

Manufactured

No

100

Each

91.0000

2

2

D2581

Mounting Bracket

**

CC 17-4-3

Location

Loc Qty

Loc Code

WA004

91

1

2

2

2

48

6

30

132771

136270

139082

147603

152803

155305

156869

(2x)

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
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Parent Item: D3172-041

D3172-041

Parent Item Name: Basket Base Assembly

Start Date: 3/27/2017

Required Date: 4/6/2017

Start Qty: 1.00

Required Qty: 1.00

✓ D3166-1
D3166-1
Basket Hoop

Manufactured No

100 Each 2.0000 4 4

**

CC 17-4-3

Location

Loc Qty

Loc Code

WA004

2

2

Each

10.0000

8

8

**

CC 17-4-3

Location

Loc Qty

Loc Code

WA004

10

2

8

Each

8.0000

4

4

**

CC 17-4-3

✓ D5365-1
D5365-1
Lug

Manufactured No

100 Each 8.0000 4 4

**

CC 17-4-3

Location

Loc Qty

Loc Code

WA004

8

8

sf

668.0000

48

48

**

CC 17-4-3

✓ M304EX0.75-16F
M304FX0 75-16F
Expanded Metal Flat SS

Purchased No

100 sf 668.0000 48 48

**

CC 17-4-3

Location

Loc Qty

Loc Code

WA004

668

92

576

M136951

M136991

3137294 →

48

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Shop Packet Print

Page 2

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Required Date: 4/6/2017

Start Qty: 1.00

Required Qty: 1.00

M304TS0.750W.065

Purchased

No

100

f

481.8049

51

53.68421

M304TS0 750W 065

**

DC 2017/03/30

304 SQ Tube .75x.75x.065W

Location

Loc Qty

Loc Code

WA004

481.804944

B137065 → 54

m133412

2.264944

m136378

93.54

m136907

386

Tuesday, March 07, 2017 11:05:20 AM

Shop Packet Print

Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

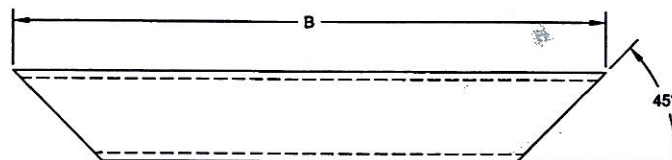
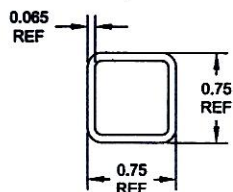
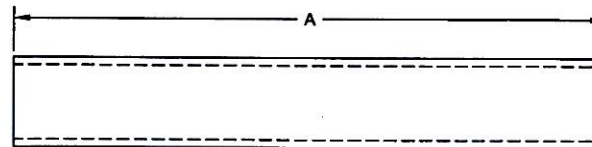
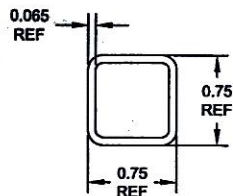
Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																		
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Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																		
Large Fab ☐	Composite ☐	Supplier ☐																			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval																	
Description Work Order Deviation		Disposition																			
				Completed By																	
				Lead hand / Supervisor Approval Verification																	
				QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐																
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐																
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐																
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐																
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐																
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____																			
Misidentified ☐	Past Due ☐																				

PARTS LIST FOR D3172-041 BASKET BASE ASSEMBLY

PART NO	QUANTITY	LENGTH A	LENGTH B	DESCRIPTION
D3172-1	2	—	96.00	RIB
D3172-3	2	—	25.50	RIB
D3172-5	6	33.09	—	RIB
D3172-7	3	26.81	—	RIB
D3172-9	1	94.50	N/A	RIB
D2327-3	2	N/A	N/A	BUSHING
D2581	2	N/A	N/A	MOUNTING BRACKET
D2232-3	2	N/A	N/A	HINGE PLATE
D3166-1	4	N/A	N/A	RIB
D3174-1	8	N/A	N/A	MOUNTING LUG
D5365-1	4	N/A	N/A	LUG

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RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 158032

MAR 07 2017



RELEASED

2016 NOV 02
ECN 16-575

NOTES:

- 1) MATERIAL: AISI 304/316 SS, 3/4 X 3/4 X 0.065 WALL SQUARE TUBING
REF. DART SPEC M304TS0.750W.065
- 2) MESH MATERIAL: 3/4-16F EXPANDED SS
REF DART SPEC M304EX0.75-16F
- 3) FINISH: POWDER COAT ENTIRE ASSEMBLY WHITE (4.3.5.2) PER DART QSI 005 4.3
- 4) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 5) UNITS: INCHES UNLESS OTHERWISE NOTED
- 6) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 7) IDENTIFICATION: NONE
- 8) WEIGHT: N/A
- 9) WELD PER DART QSI 004

D	REPLACED D2012-117 WITH D5365-1 (ZN C6-1, D5-1, C5-2, D3-2, C3-2)	VS	15.11.04
C	FRAME MATERIAL WAS 0.060 WALL. MESH MATERIAL UPDATED. DRAWING MOVED TO "B" FORMAT AND UPDATED TO CURRENT STANDARDS.	AJS	08.07.03
B	ADD D3172-9 & D2012-117	CP	03.01.07
A	NEW ISSUE	DS	02.12.02
REV.	DESCRIPTION	BY	DATE
DESIGN	CP	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED	RF	DRAWING NO.	REV. D
MFG. APPR.	RD	D3172	SHEET 1 OF 3
APPROVED	9/17	TITLE	SCALE
DE APPR.	1/17	BASKET BASE ASSEMBLY (EC130)	NTS
DATE	15.11.04	COPYRIGHT © 1992 BY DART AEROSPACE LTD THIS DOCUMENT IS PROPRIETARY AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

